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None

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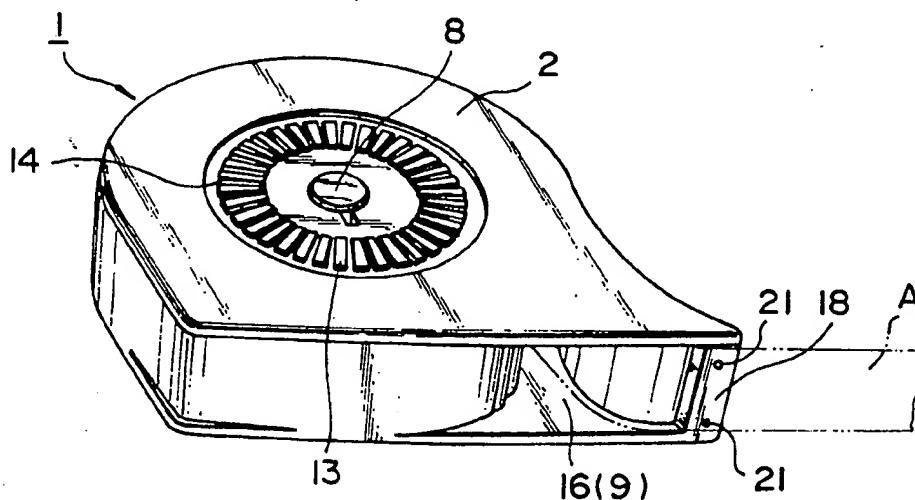
B8M

Selected US specifications from IPC sub-class B65H

(54) Dispenser for transprinting-type error correction tape

(57) A dispenser 1 for a transprinting-type error correction tape A wound on a tape reel (7, Fig. 3c) provides a housing 2 that houses the tape reel in a free rotating manner, said housing being provided with a tape removal opening 16, 9 and a tape-guiding wall 18 equipped with a small protrusion 21.

FIG. 1



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FIG. 1

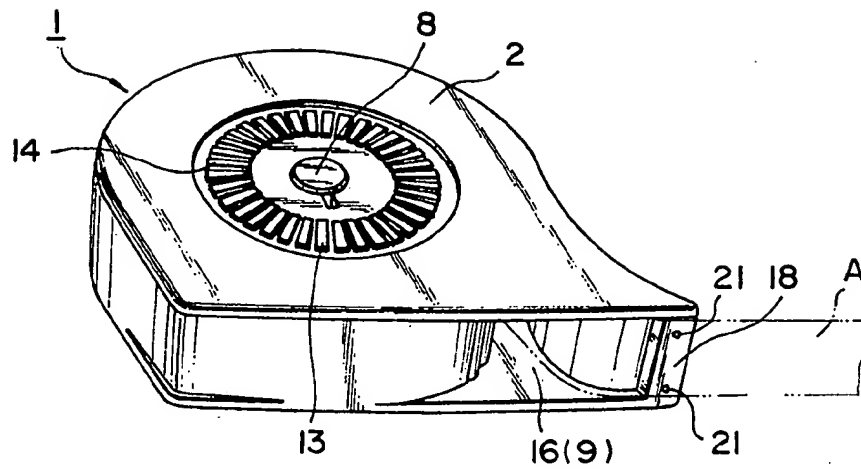
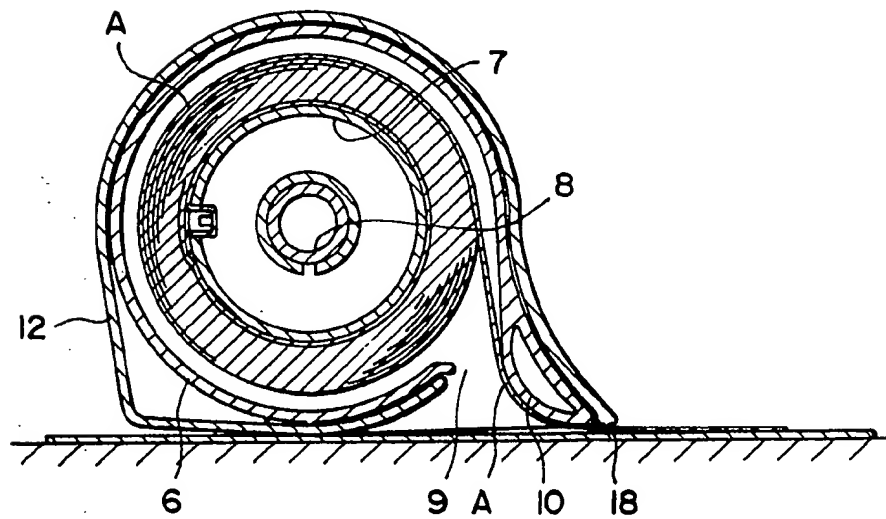


FIG. 2



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FIG. 3(a)

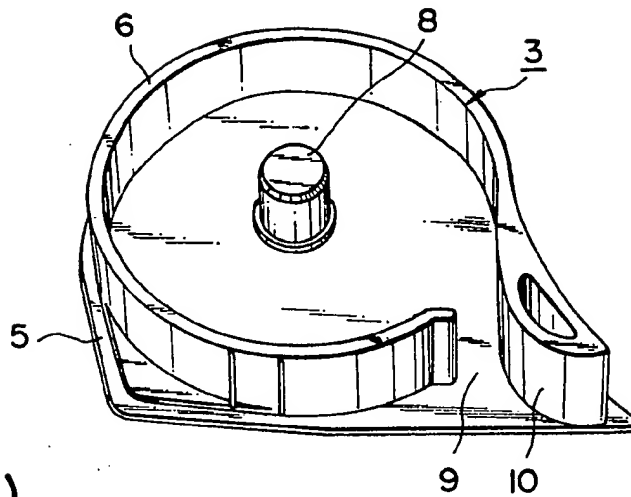


FIG. 3(c)

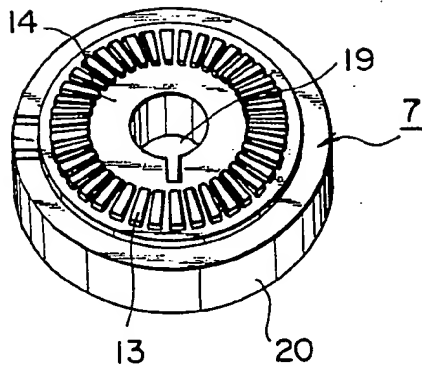
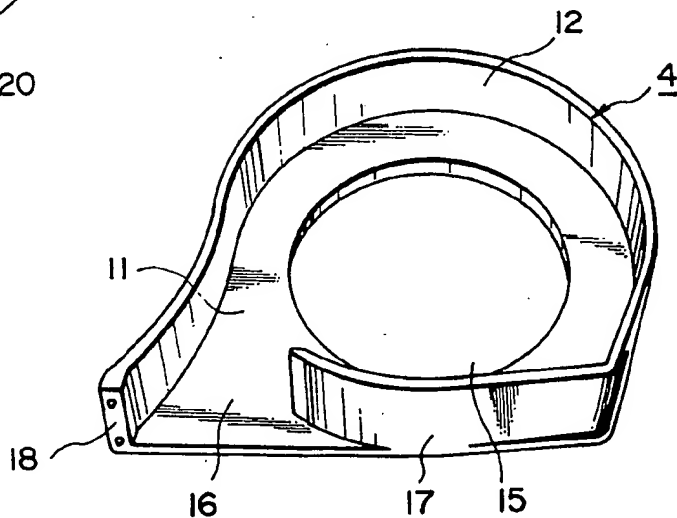


FIG. 3(b)



SPECIFICATION

Dispenser for transprinting-type error correction tape

5 This invention relates to a dispenser for transprinting-type error correction tape.

With a transprinting-type error correction tape known in the prior art, a paint film is coated on a base tape in a transprintable manner. This paint film is transprinted and adhered to an error position of writing, separately from the base tape, to cover up the error, by attaching the paint film onto the error on the document and rubbing the film on the base tape.

The paint film of such a tape is easily peeled off while maintaining the surface very sticky because this tape is used as described above. In addition, the tape should be fixed onto a document beforehand, because the tape is rubbed for covering up an error. It is advantageous to use a part of a dispenser for this rubbing and pushing operation. Therefore, the dispenser for the tape is required to have such a structure that will not damage the tape or its paint film.

No special dispenser for transprinting-type error correction tape was known in the prior art because the tape itself was a new product. Of course, there are similar dispensers for adhesive tape, etc., known in the prior art. However, these dispensers will not apply to a transprinting-type error correction tape because the object tape is very different.

Viewed from one broad aspect the present invention provides a dispenser for a transprinting-type error correction tape, comprising a tape reel and a housing that houses said tape reel in a free rotating manner, said housing being provided with a tape removal opening and an inner tape-guiding wall at the bottom of said housing, and said inner guiding wall being provided with a small protrusion.

By means of this arrangement, at least in its preferred forms, there is provided a dispenser suitable for applying a transprinting-type error correction tape, that will not damage the paint film before being transprinted and adhered to a document, etc., while providing easy pulling-out and moving of the tape.

Preferably the reel is rotatable and externally controllable.

It is also preferred that two protrusions are provided with the interval between the protrusions being slightly narrower than the width of the transprinting-type error correction tape.

An embodiment of the invention will now be described by way of example and with reference to the accompanying drawings, in which:—

Figure 1 is a perspective view of a dispenser,

Figure 2 is a perspective view of a housing,

Figures 3(a)–(c) illustrate the parts of the dispenser in Fig. 1.

In these drawings, 1 generally shows a dispenser and 2 a housing, while A represents a transprinting-type error correction tape. The housing 2 comprises two parts 3 and 4 that are assembled as shown in Fig. 3.

The part 3 comprises a side wall 5 and a peripheral wall 6, while the side wall 5 forms a structure that is substantially an inverted U shape with one side of the lower end sharply protruding. Substantially at the center of the side wall 5, there is a rotation axis 8 that has a protrusion or boss for supporting for free rotation a reel 7 for the tape.

The peripheral wall 6 has a substantially round contour in which a slit 9 is provided for pulling out the tape, at a position corresponding to the protruding part of the side wall 5. There is an inner wall surface 10 of annular section for guiding the tape on the peripheral wall 6 on the outer side of the slit 9. The reel 7 for the tape is coupled onto the said rotation axis 8.

The part 4 comprises, substantially symmetrical to the part 3, a contour and structure provided with a side wall 11 and a peripheral wall 12. An opening 15 is provided at the center of the side wall 11, for exposing a side surface 14 of the reel 7 with notches 13 externally. In the lower part of the peripheral wall 12 of the part 4, there is an opening 16 at a position corresponding to the slit 9. The front side end of the opening 16 acts as an inner tape-guiding wall 18, substantially aligned with a lower part 17 of the peripheral wall 12.

The reel 7 comprises, after being assembled, a side wall 14 provided with notches 13 exposed outwardly from the opening 16 of the side wall 11, a hole 19 for receiving the rotation axis 8 and a peripheral surface 20 for encircling the tape A.

The side surface 14, equipped with notches 13, is provided for controlling the rotation of the reel 7. However, another means may also be used for controlling the rotation of the reel, for example a suitable click means.

Two small protrusions 21 are provided on the tape-guiding wall 18. The space between these small protrusions 21 is made slightly narrower than the total width of the tape A.

After the reel 7 is set onto the rotation axis 8, parts 3 and 4 are set up with the peripheral walls 6 and 12 opposed, in place. The peripheral wall 6 is just fitted in the peripheral wall 12.

With this embodiment of the present invention, the two parts of substantially symmetrical shape and structure are engaged together for forming a housing. It is also possible to form such a housing, with the peripheral wall of the housing being provided on only one

prise a normal material known in the state of the art, e.g. plastics.

A method of using the dispenser for a transprinting-type error correction tape, will now be described.

The dispenser is placed with the edge of the guiding wall 18 of the dispenser placed in alignment with the front side of a correcting position of a document, etc. The front side of the dispenser is raised slightly and the tape A is pulled out by a necessary amount. At this time, the side surface 14 of the reel 7 is pushed with a fingertip to adjust the rotation of the reel 7 for pulling out a suitable quantity of the tape.

When the necessary length of tape is pulled out for erasing an error, the inner guiding wall 18 at the edge of the dispenser is pressed onto the document. At this time, the tape is not pressed onto the document by the entire part of the inner guiding wall 18, but only with the small protrusion. Therefore, the paint film of the tape is hardly pressed onto the document, although satisfactorily fixing of the tape is obtained without any trouble. Consequently, when the tape is peeled off the document together with the dispenser after completion of the correction, the paint film is not transprinted and adhered onto unnecessary parts of the document.

Where a transprinting-type error correction tape of a type having no paint film coated on both edges of the tape (see the Applicants' pending application No.), is used, the tape can be pulled out advantageously without damaging the paint film, even when the inner guiding wall 17 is pressed to some extent.

It is to be clearly understood that there are no particular features of the foregoing specification, or of any claims appended hereto, which are at present regarded as being essential to the performance of the present invention, and that any one or more of such features or combinations thereof may therefore be included in, added to, omitted from or deleted from any of such claims if and when amended during the prosecution of this application or in the filing or prosecution of any divisional application based thereon.

CLAIMS

1. A dispenser for a transprinting-type error correction tape, comprising a tape reel and a housing that houses said tape reel in a free rotating manner, said housing being provided with a tape removal opening and an inner tape-guiding wall at the bottom of said housing, and said inner guiding wall being provided with a small protrusion.

2. A dispenser according to claim 1, wherein said reel is rotatable and controllable from the outside.

3. A dispenser according to claim 1, wherein said reel is rotatable and controllable from the outside.

spacing slightly narrower than the width of said tape.

4. A dispenser for a transprinting-type error correction tape substantially as hereinbefore described with reference to the accompanying drawings.

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